

Appl. No. 10/534,690
Amendment dated November 19, 2008
Reply to Office Action of August 19, 2008

The following Listing of Claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

1. (Cancelled)

2. (Cancelled)

3. (Currently Amended) The A pump driving method as set forth in claim 1, further comprising:

driving a motor based upon a command value;

carrying out feedback control of a discharge pressure;

driving a pump using the motor;

defining a predetermined pressure, flowing amount, and horse power as characteristic values for a predetermined power voltage; and voltage, and

changing the command value in correspondence with a detection value of the power voltage.

4. (Previously Presented) A pump driving method comprising:

driving a motor based upon a command value,

carrying out feedback control of a discharge pressure,

driving a pump using the motor based on whether or not a detected DC voltage of an inverter for supplying a driving voltage to the motor is an ideal DC voltage value of an alternate current power voltage,

changing the command value for the detected DC voltage upon judging that the detected DC voltage is the ideal DC voltage value of the alternate current power voltage, and maintaining the last changed command value upon judging that the detected DC voltage is not the ideal DC voltage value of the alternate current power voltage.

5. (Currently Amended) A pump driving method comprising:

driving a motor based upon a command value,
carrying out feedback control of a discharge pressure,
driving a pump using the motor based on whether or not a detected DC voltage of an inverter for supplying a driving voltage to the motor is an ideal DC voltage value of an alternate current power voltage,
changing the command value for the detected DC voltage upon judging that the detected DC voltage is the ideal DC voltage value of the alternate current power voltage, and maintaining a ~~power voltage~~ value of said detected DC voltage used when said command value was last changed upon judging that the detected DC voltage is not the ideal DC voltage value of the alternate current power voltage.

6. (Cancelled)

7. (Cancelled)

8. (Currently Amended) ~~The A pump driving apparatus as set forth in claim 6, wherein comprising:~~

a motor configured to be driven based upon a command value to feedback control a discharge pressure;

a pump operatively coupled to the motor; and

a the characteristic changing section is configured to define a predetermined pressure, flowing amount, and horse power as characteristic values for a predetermined power voltage, the characteristic changing section being further configured and to change the command value in correspondence with a detection value of the power voltage.

9. (Previously Presented) A pump driving apparatus comprising:
a motor configured to be driven based upon a command value to feedback control a discharge pressure,
a pump operatively coupled to the motor, and
judgment section configured to judge whether or not a detected DC voltage of an inverter for supplying a driving voltage to a the motor is an ideal DC voltage value of an

alternate current power voltage, configured to change the command value for the detected DC voltage upon judging that the detected DC voltage is the ideal DC voltage value of the alternate current power voltage, and configured to maintain the last changed said command value upon judging that the detected DC voltage is not the ideal DC voltage value of the alternate current power voltage.

10. (Currently Amended) A pump driving apparatus comprising:
a motor configured to be driven based upon a command value to feedback control a discharge pressure, a pump operatively coupled to the motor, and
judgment section configured to judge whether or not a detected DC voltage of an inverter for supplying a driving voltage to the motor is an ideal DC voltage value of an alternate current power voltage, configured to change the command value for the detected DC voltage upon judging that the detected DC voltage is the ideal DC voltage value of the alternate current power voltage and configured to maintain a ~~power voltage~~ value of said detected DC voltage used when said command value was last changed upon judging that the detected DC voltage is not the ideal DC voltage value of the alternate current power voltage.

11. (Currently Amended) The pump driving method as set forth in ~~claim 1~~
claim 3, further comprising

decreasing the command value in correspondence with a decreasing amount of the detected power source voltage when the detected power source voltage decreases.

12. (Previously Presented) The pump driving method as set forth in claim 4,
wherein
when a condition is continuing for a period equal to or more than first predetermined period of time in which said motor is driven at a rotational speed equal to or less than a first predetermined value and in which rotation speed change of said motor is equal to or less than a second predetermined value, it is judged that the detected DC voltage is the ideal DC voltage value.

13. (Currently Amended) The pump driving apparatus as set forth in ~~claim 6~~ claim 8, wherein

the characteristic changing section is configured to decrease the command value in correspondence with a decreasing amount of the detected power source voltage when the detected power source voltage decreases.

14. (Previously Presented) The pump driving apparatus as set forth in claim 9, wherein

when a condition is continuing for a period equal to or more than first predetermined period of time in which said motor is driven at a rotational speed equal to or less than a first predetermined value and in which rotation speed change of said motor is equal to or less than a second predetermined value, said judgement section judges that the detected DC voltage is the ideal DC voltage.